

Listing of Claims

This listing of claims will replace all prior versions, and listings, of claims in the application.

1 1. (previously presented) A method of inventorying data carriers by means of
2 a communication station, wherein said communication station and each data
3 carrier are brought into communicative connection, and wherein each data carrier
4 brought into communicative connection with the communication station generates
5 a response signal enabling the inventorying of the data carrier after at least one
6 operational condition has been fulfilled and supplies said response signal using a
7 transmission start moment that can be chosen from a plurality of transmission start
8 moments that are defined from a carrier signal end moment that coincides with the
9 end of a transmission of a carrier signal from said communication station, wherein
10 each of the transmission start moments is defined by a common selectable discrete
11 time period and a number of waiting time periods from the carrier signal end
12 moment, where the number of waiting time periods is defined from the end of the
13 common selectable discrete time period, and wherein each data carrier is
14 configured to test, before generating its response signal, whether another data
15 carrier is transmitting its response signal and wherein each data carrier does not
16 generate its response signal if another data carrier is already transmitting its
17 response signal.

1 2. (canceled).

1 3. (previously presented) A method as claimed in claim 1, wherein the
2 response signal given is an identification signal.

1 4. (previously presented) A method as claimed in claim 1, wherein the
2 number of said waiting periods is selected by a random principle.

1 5. (previously presented) A method as claimed in claim 1, further comprising
2 transmitting an inventory command from the communication station during the
3 transmission of the carrier signal.

1 6. (previously presented) A method as claimed in claim 1, wherein the
2 number of selectable transmission start moments is greater than the number of
3 data carriers.

1 7. (previously presented) A method as claimed in claim 1, wherein a data
2 carrier that has given a response signal can be set to an idle state by the
3 communication station, in which idle state no response signal is provided.

1 8. (previously presented) A data carrier, which data carrier is designed for
2 contactless communication with a communication station and which comprises an
3 integrated circuit, which integrated circuit comprises the following means:
4 response signal generation means for generating a response signal start moment
5 selection means by which a transmission start moment can be selected from a
6 plurality of transmission start moments that are defined from a carrier signal end
7 moment that coincides with the end of a transmission of a carrier signal from said
8 communication station, wherein each of the transmission start moments is defined
9 by a common selectable discrete time period and a number of waiting time periods
10 from the carrier signal end moment, where the number of waiting time periods is
11 defined from the end of the common selectable discrete time period, and response
12 signal recognition means designed for recognizing a response signal given by
13 another data carrier and for generating and delivering a response signal
14 recognition signal and wherein delivery decision means are provided which
15 release or block a delivery of the response signal in dependence on the response
16 signal recognition signal and the transmission start moment, wherein the data
17 carrier is configured to test, before generating its response signal, whether another
18 data carrier is transmitting its response signal and wherein the data carrier does
19 not generate its response signal if another data carrier is already transmitting its
20 response signal.

1 9. (previously presented) A data carrier as claimed in claim 8, wherein the
2 response signal generation means are formed by identification signal generation
3 means.

1 10. (previously presented) A data carrier as claimed in claim 8 or 9, wherein
2 the response signal recognition means are designed for recognizing a carrier
3 signal.

1 11. (previously presented) A data carrier as claimed in claim 8, wherein the
2 response signal recognition means are designed for recognizing a modulated
3 carrier signal and for this purpose comprise demodulation means which are
4 designed for demodulating a modulated carrier signal.

1 12. (previously presented) An integrated circuit for a data carrier which data
2 carrier is designed for contactless communication with a communication station,
3 said integrated circuit comprising the following means: response signal generation
4 means for generating a response signal start moment selection means by which a
5 transmission start moment can be selected from a plurality of transmission start
6 moments that are defined from a carrier signal end moment that coincides with the
7 end of a transmission of a carrier signal from said communication station, wherein
8 each of the transmission start moments is defined by a common selectable discrete
9 time period and a number of waiting time periods from the carrier signal end
10 moment, where the number of waiting time periods is defined from the end of the
11 common selectable discrete time period, and response signal recognition means
12 designed for recognizing a response signal given by another data carrier and for
13 generating and delivering a response signal recognition signal and wherein
14 delivery decision means are provided which release or block a delivery of the
15 response signal in dependence on the response signal recognition signal and the
16 transmission start moment, wherein the data carrier is configured to test, before
17 generating its response signal, whether another data carrier is transmitting its
18 response signal and wherein the data carrier does not generate its response signal
19 if another data carrier is already transmitting its response signal.

1 13. (previously presented) An integrated circuit as claimed in claim 12,
2 wherein the response signal generation means are formed by identification signal
3 generation means.

1 14. (previously presented) An integrated circuit as claimed in claim 12,
2 wherein the response signal recognition means are designed for recognizing a
3 carrier signal.

1 15. (previously presented) An integrated circuit as claimed in claim 12,
2 wherein the response signal recognition means are designed for recognizing a
3 modulated carrier signal and for this purpose comprise demodulation means which
4 are designed for demodulating a modulated carrier signal.

1 16. (previously presented) A method of inventorying data carriers, which
2 method comprises the following steps:

3 choosing from a plurality of transmission start moments, which are defined
4 from a signal end moment that coincides with the end of a transmission of a signal
5 from a communication station, a transmission start moment for starting a
6 transmission of a carrier response signal for the purpose of supplying data to said
7 communication station during the transmission of said carrier signal, wherein the
8 data enable the inventory of the data carrier, and wherein each of the transmission
9 start moments is defined by a common selectable discrete time period and a
10 number of waiting time periods from the signal end moment, where the number of
11 waiting time periods is defined from the end of the common selectable discrete
12 time period;

13 testing, before generating its response signal, whether another data carrier
14 is already transmitting a carrier signal after said signal end moment and prior to
15 said chosen transmission start moment; and

16 inhibiting the starting of said transmission of said carrier signal at said
17 chosen transmission start moment if the result of said testing is positive, including
18 not generating its response signal if another data carrier is already transmitting its
19 response signal.

1 17. (previously presented) A method as claimed in claim 16, comprising
2 starting the transmission of said carrier signal at the chosen transmission start
3 moment if said result of said testing is negative.

1 18. (previously presented) A method as claimed in claim 17, comprising
2 transmitting a response signal between two time periods during the carrier signal
3 transmission to take into account transient phenomena.

1 19. (previously presented) A method as claimed in claim 16, wherein the
2 transmission start moment is selected by a random principle.

1 20. (previously presented) A method as claimed in claim 16, wherein said
2 choosing of said transmission start moment allows the number of choose-able
3 transmission start moments to be greater than the number of data carriers.

1 21. (previously presented) A method as claimed in claim 16, further
2 comprising transmitting an inventory command from the communication station
3 during the transmission of the signal.

1 22. (previously presented) A method as claimed in claim 21, wherein said
2 choosing of the transmission start moment comprises shifting said transmission
3 start moment in time by a selectable discrete delay period with respect to said end
4 of the carrier signal transmission of said communication station.

1 23. (previously presented) A method as claimed in claim 17, comprising
2 setting said data carrier that has supplied its data as identification data into an idle
3 state by the communication station, in which idle state no carrier signal is
4 transmitted.